

Introduction

Features

The SoundExtreme Pulse 28 inch Rechargeable Powersports Amplified Soundbar (referred to as SEB Pulse) includes the following features.

Battery Operated

Operated by removable and rechargeable battery pack. No wiring needed.

Speaker with Big Sound

- 500 watt peak power.
- 8 Marine-grade speakers: 2 tweeters, 4 mid-range, 2 woofers.

Multi-Audio Source Inputs and Output

- Bluetooth streaming.
 - Bluetooth 5.1 long range and reliable connection to your phone.
 - Dual simultaneous connections – switch playback between two phones.
 - Built-in speakerphone function.
- FM radio (no AM radio).
- Aux-In with integrated noise cancellation and input gain adjustment (via SoundExtreme app).
- Aux-Out.

Backlit Buttons

- When any button is pressed, the backlights will turn on to illuminate them for night use.

Built-in EcoCast Wireless Audio

- Wirelessly stream your radio's Bluetooth music, FM radio and Aux-In audio to EcoCast-enabled speakers. Supports up to 100 wireless connections between any mix of EcoCast-enabled ECOXGEAR and SoundExtreme soundbars, subwoofers, radios, and party speakers.

- Play audio streams wirelessly received from an EcoCast Transmitting speaker. No wires!

Built-in LEDCast 4-Zone LED Controller

- 2 Zones for internal LED lights.
- 2 Zones for external, LEDCast-enabled LED strips, rocker lights, and whips (sold separately).

Integrated Addressable RGB LED Lights

- Addressable RGB LED backlights on the mid-range speakers.
- Dual-function rear facing light bar with both RGB party lights, and utility (white) light with 3 brightness settings

Embedded Dome Light

- Dome light with dedicated button for 3 level brightness control.

Includes SoundExtreme RF Universal Remote Control

- Control the core audio and lighting functions remotely anywhere near and around your vehicle

Smartphone SoundExtreme App

The free SoundExtreme Smartphone App allows user to set up speaker's LED lighting control and configure speaker audio functions.

- Create dozens of LED color patterns, speed, brightness, music sync, and LED chasing.
- Create and save lighting Scenes by programming each of your device's and zone's LEDs to a specific color and mode, such as Christmas, 4th of July, Halloween, nighttime, and party scenes for a 1 button access later.
- Select your Dome Light's brightness (high, mid, and low) and set a timer to automatically turn the light off at a desired time.
- Configure the speaker Bluetooth function, Aux In, tune speaker's FM station and save 6 of your favorites to presets.

Introduction

5V USB Charge Out

- A 5V, 2.1A USB-C charge output for charging your phone.

Mounting Options

- Integrated mounting rail with threaded mounting holes. Visit www.soundextreme.com for mounting bracket options.

Important

- Please read the User Guide before installation and use.
- Only charge the Battery Pack with the included Battery Charger. DO NOT charge the Battery Pack by any other manufacturer's charger, as it may cause the Battery Pack to overcharged and overheat! In extreme cases, it can cause the Battery Pack to expand, leak, or potentially catch on FIRE!

Aux-In Audio

- If you connect your Head Unit's pre-amplified audio output to the SEB Pulse's Aux-In jack, and play audio from the Head Unit, the playback control is on the Head Unit. Though, you can adjust the Aux-In signal input gain by pressing the Volume Up or Down Buttons on your SEB Pulse.
- If the SEB Pulse's sound output is too low or there is no sound when you play music on the Head Unit, check if the SEB Pulse audio source is set to Aux-In mode, or if the Aux-In input signal gain is set too low.

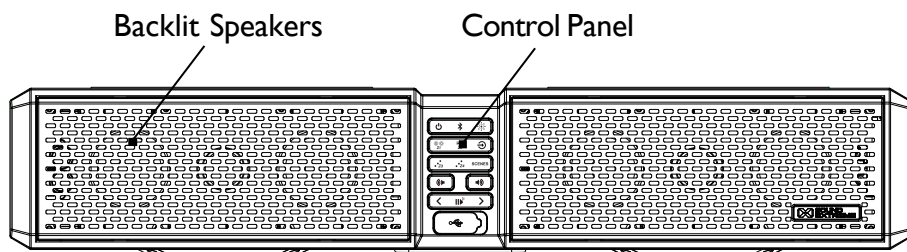
Introduction

LED Lighting Control

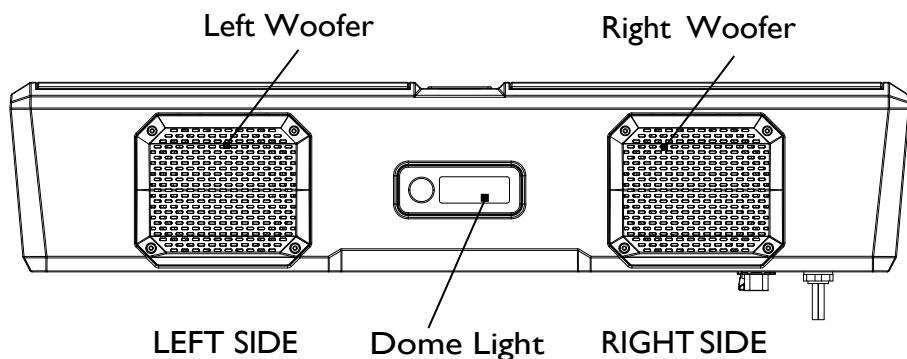
- The SEB Pulse has an integrated LED lighting controller with two outputs (Zones). Each Zone can support multiple types of SoundExtreme LEDCast-enabled products. But it is NOT compatible with other manufactures' LED strips or LED whips. Do NOT make modifications to the LED connectors or try to connect the LED outputs to other brand LEDs. It may cause permanent damage to the product and void the warranty.
- LED lights are known to create interference (noise) on some FM radio frequencies (stations). When you tune or seek a station, it is recommended that you turn the LED Party Lights off.

CAUTION: After taking the product out of the polyethylene bag, be sure to dispose of the polyethylene bag out of the reach of children. Children may play with the bag, which could result in the child's suffocation.

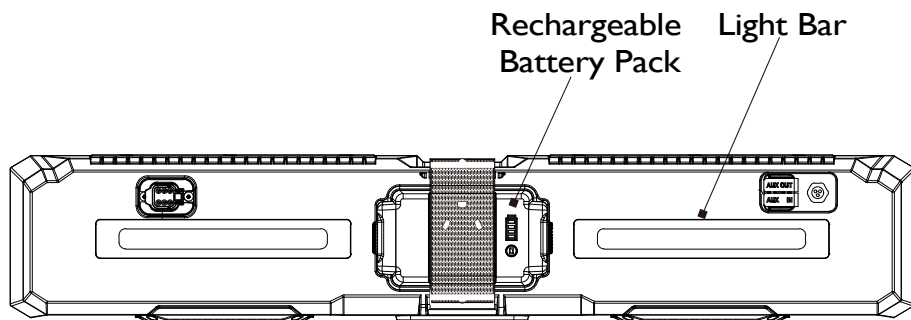
SEB Pulse Layout



FRONT

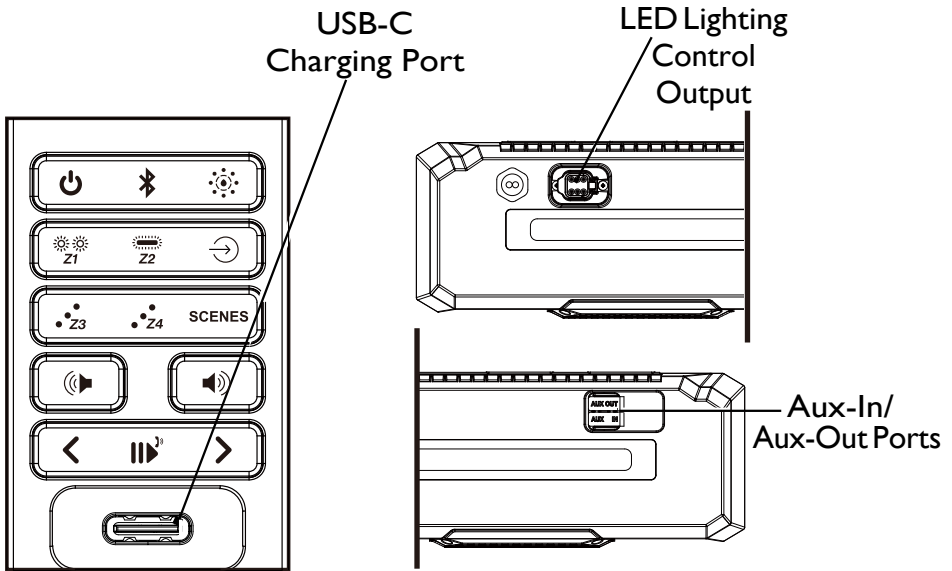


BOTTOM



BACK

Inputs, Outputs, and Jacks



Do NOT use these connections if the connections are wet.

Aux-In: 3.5mm audio jack. This input can be used to connect an Head Unit, additional soundbar, or a phone earphone output, etc.

Aux-Out: 3.5mm audio jack. This output can be used to connect to an additional soundbar, radio, amplifier, or to any audio system with an Aux-In connection.

LED Lighting Control Output: 6-pin Deutsch Jack. This jack supports one or two LED Zones.

USB-C Charging Port: Type C jack. This output can be used to charge your smartphone or other devices. USB-C charging only functions when the speaker's power is turned on. USB port rating is 5V, 2.1A.

IMPORTANT: Maintaining Waterproofness

When not in use, if the caps on the USB-C Charging Port, Aux-In, Aux-Out, or the Deutsch Jack are not properly closed, the unit is NOT watertight. To close them properly, push firmly to be sure the caps fit flat along their edges.

Speaker LEDs, Light Bar, Utility Light, Dome Light and LED Light Control Outputs

The SEB Pulse soundbar has an integrated LEDCast lighting controller to support the built-in addressable LED Party Lights and Utility Light on the soundbar, a dome light and two external LEDCast enabled LED products. The LED Party Lights driven by the integrated controller provide millions of Color Modes: solid colors, fading, jumping, chasing, speed, and variable brightness.

- There are RGB LED Party Lights behind the 4 mid-range Speakers on the front, and rear-facing LED Light Bar.
- Additionally, the rear-facing Light Bar can also be used as a white Utility Light, which provides 3 levels of brightness: high, mid, and low.

Note: The RGB LED Light Bar and Utility Light are co-located on the same Light Bar on the back; as such, the Light Bar cannot function as a white Utility Light and RGB LED Party Lights at the same time. Refer to Light Bar: Utility Light and Zone 2 RGB LED Party Lights for more details.

- The SEB Pulse supports two external LEDCast-enabled LED products, each has a maximum 5A DC output. Refer to LED Lighting Control to External LEDs and LED Lighting Zones, Modes, and Scenes for more details.

Buttons and LED Status Indicators

- Backlit Button Status Indicators: The backlit light colors on Power Button (1), Bluetooth Button (2) and Audio Source Button (6) shine different colors for different status.

- i. **Power Button (1)**
 - Solid Green: Power On
 - No Light: Power Off or Standby

- ii. **Bluetooth Button (2)**
 - Flashing Blue: Bluetooth Paring
 - Solid Blue: Bluetooth Connected

iii. **Audio Source Button (6)**

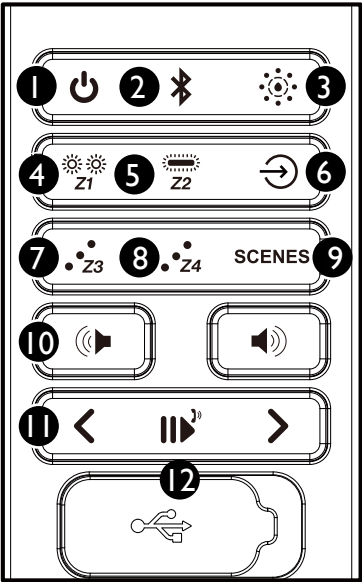
- Solid Blue: Speaker Mode (EcoCast is turned off)
- Flashing Red: EcoCast Transmitting Mode – Pairing Ready
- Solid Red: EcoCast Transmitting Mode
- Flashing Green: EcoCast Receiving Mode – Pairing Ready
- Solid Green: EcoCast Receiving Mode – Paired with EcoCast Transmitting speaker
- Solid Purple: FM Mode
- Solid Yellow: Aux-In

• **Power Button (1)**

- Short-press to turn the soundbar On / put into Standby.
- Press and hold for 3 seconds to turn all 4 LED Zones On / Off.

• **Bluetooth Button (2)**

- When in Bluetooth Mode, if the Bluetooth LED Indicator is not flashing Blue, press this button to enter Bluetooth Pairing.



If your device is connected (solid Blue LED), press the button to disconnect and reenable pairing.

Press and hold this button for 5 seconds to clear all pairing memory.

- **EcoCast Button (3)**

Press button to enable EcoCast pairing

Press and hold for 5 seconds to clear the EcoCast pairing memory.

- **Z1 Button (4):** Zone 1 – LED Party Lights on Backlit Speakers

Short-press to turn on the LED Party Lights behind the speakers.

When the lights are on, short-press to cycle through each of the 45 LED Button Modes. There are a total of 44 LED Lighting Modes supported by the Control Panel. (The SoundExtreme app can support many more Color Modes.) The 45th LED Button Mode is Off Mode. Therefore, a short-press on the 44th Mode will turn the lights off, and another short-press will cycle back to the first LED Lighting Mode again.

When the lights are on, **press and hold** to turn off.

- **Z2 Button (5):** Zone 2 – Light Bar

Short-press to turn on the LED Light Bar on the back of the soundbar. When the lights are on, short-press to cycle through each of the 45 LED Button Modes.

When the lights are on, **press and hold** to turn off.

- **Audio Source Button (6)** : Press button to cycle through the following Audio Source Modes – Bluetooth, EcoCast Transmitting, EcoCast Receiving, FM, and Aux-In.

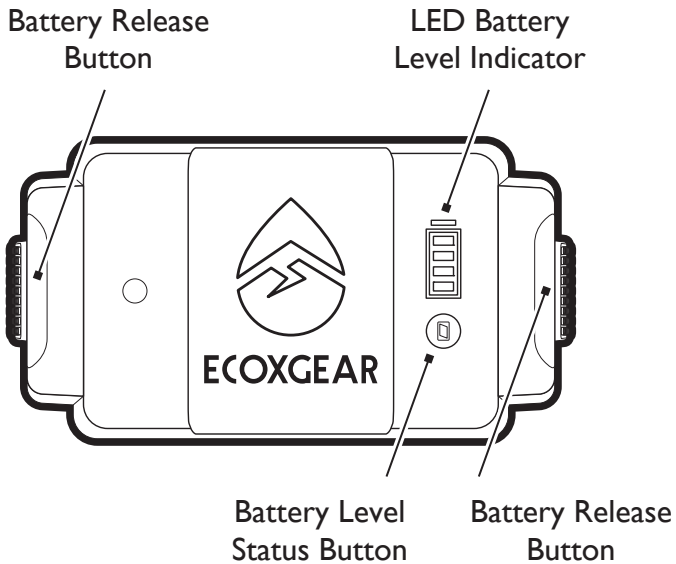
- **Z3 Button (7):** Zone 3 – LED Lighting Control Output Short-press to turn on the Zone 3 external LEDCast-enabled product. When the lights are on, short-press to cycle through each of the 45 LED Button Modes.

When the lights are on, **press and hold** to turn off.

SEB Pulse

- **Z4 Button(8): Zone 4 – LED Lighting Control Output**
 - Short-press to turn on the Zone 4 external LEDCast-enabled product. When the lights are on, short-press to cycle through each of the 45 LED Button Modes.
 - When the lights are on, **press and hold** to turn off.
- **Scenes Button(9):**
 - Short-press to cycle through all the 5 Scenes. (Scenes can only be programmed in the SoundExtreme smartphone app).
 - **Press and hold** to turn On and turn Off the rear-facing Utility Light.
- **Volume Control Buttons(10):**
 - Press to adjust the speakers' volume.
 - **Press and hold** to adjust the volume continually.
- **Track Buttons(11):**
 - In Bluetooth Mode, press buttons to play the previous / next track.
 - In FM Mode
 - Short press either button to tune to a radio station.
 - To “seek” (jump to the next available station), **press and hold** either Button for a few seconds until it starts to seek a station.
- **Play/Pause/Answer/EcoTalk Button(12):**
 - Press to play / pause a track or answer / end a mobile call from a paired Bluetooth phone.
 - EcoTalk: **Press and hold** to activate your Voice Assistant (Siri or Hey Google).
- **Dome Light Button:**
 - Short-press to turn on. Each consecutive short-press will cycle through the three Dome Light brightness levels (high, mid, low) and then turn the Dome Light off.
 - **Press and hold** to turn the Dome Light off .

Rechargeable Battery



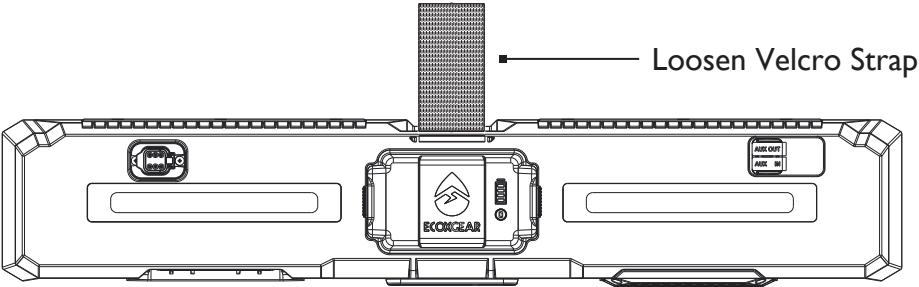
The SEB Pulse has a removable, 12V Rechargeable Battery Pack. Before using the speaker for the first time, charge the battery. It can take 8 hours to fully recharge the battery from empty.

WARNING: Only use the provided Battery Charger. Do NOT attempt to use an alternative charger from another manufacturer. It may cause permanent damage to the product and VOID THE PRODUCT WARRANTY. (Additional removable 12V Rechargeable Battery Packs and Battery Chargers sold separately.)

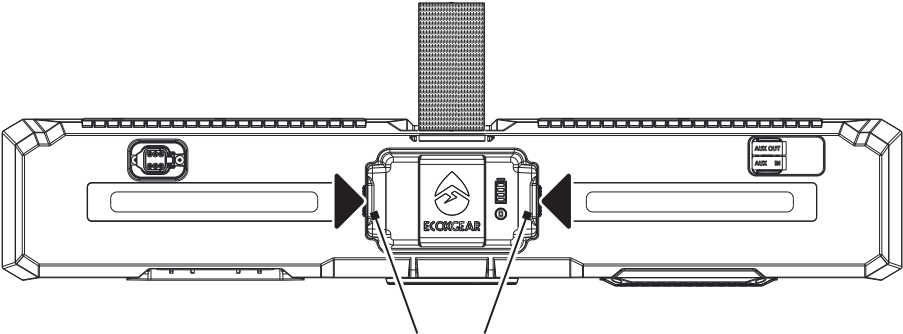
Recharge Battery Pack

1. Prior to first use, the Battery Pack is not installed. Instead, the Battery Port Cap has been installed to create a waterproof seal. Remove the Battery Pack from its packaging and skip to Step 5.

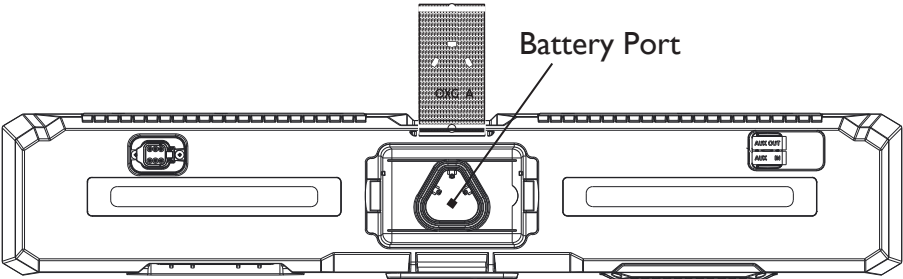
Installation, Charging, and Wiring



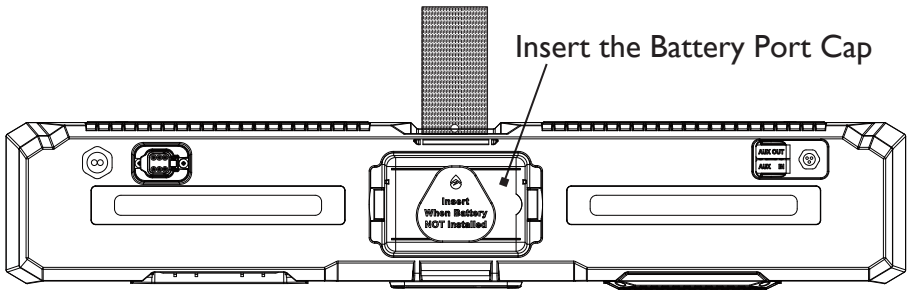
2. Loosen the strap that is fastened over the Battery Pack.



3. Remove Battery Pack by pressing the Battery Release Buttons on both sides of the battery and pulling it out of the back of the speaker.



Installation, Charging, and Wiring



4. Insert the Battery Port Cap to create a waterproof seal while the Battery Pack is being charged.

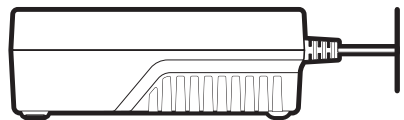
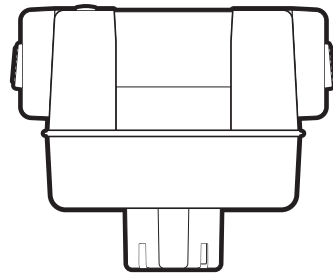
5. Insert the Battery Pack into the Battery Charger.

6. Plug the Battery Charger into a wall power outlet.

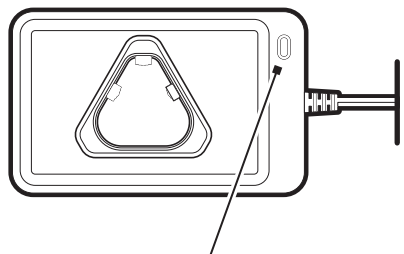
7. The Battery Charging Indicator on the Battery Charger will shine red while charging.

8. You can press the Battery Level Status Button on the Battery Pack while it is charging. The LED Battery Level Indicator segments will illuminate for approximately 5 seconds. Each LED segment represents 25% of a charge. Four full LEDs indicate a full charge.

9. Once the battery is fully charged, the Battery Charging Indicator will shine green. It can take 8 hours to fully recharge the battery from empty.



Insert Battery Pack into Battery Charger

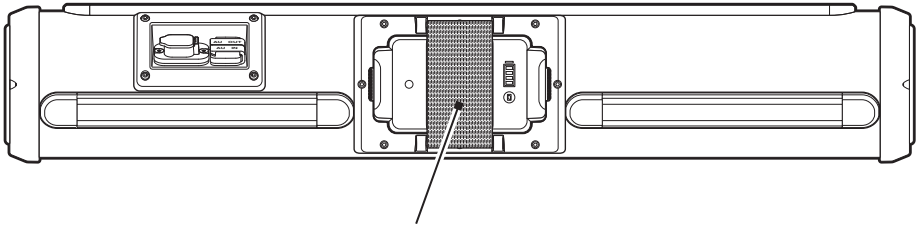


Battery Charging Indicator

Installation, Charging, and Wiring

10.Remove Battery Pack from the Battery Charger.

11.Remove the Battery Port Cap from the Battery Port.



Fasten Velcro Strap

12. Insert the Battery Pack into the back of the speaker. You should hear an audible click, indicating that the Battery Pack is secure. Fasten the strap over the battery.

Use Caution: Do NOT attempt to charge if battery is wet. Contact may cause electric shock and injury if wet. The Battery Charger is NOT waterproof.

Notes:

Fully charge prior to use (6-8 hours).

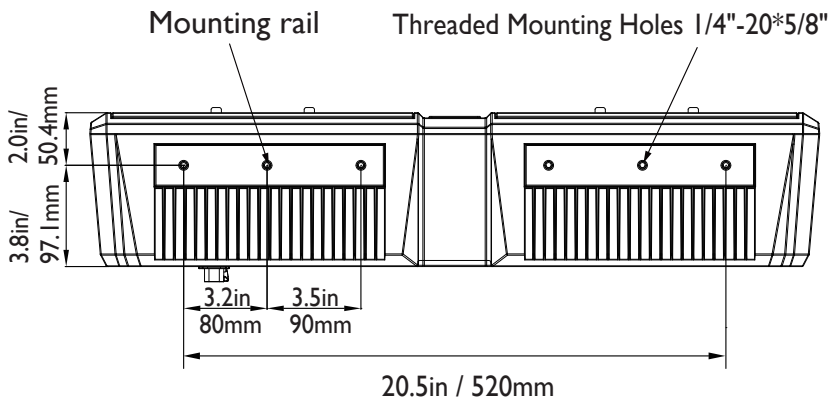
Do NOT leave a unit plugged in and charging continuously for more than 16 hours after the unit indicates a full charge.

If your SEB Pulse comes with your vehicle, make sure you follow your vehicle's user guide or vendor's instructions for the soundbar installation.

If you purchase a SEB Pulse for your vehicle, you will need to mount the soundbar to your vehicle and connect it to a 12V power supply.

Mounting Your Soundbar

The SEB Pulse's integrated mounting rail has 6 threaded mounting holes.



You can check out mounting accessories at www.soundextreme.com to get a mounting bracket that fits your vehicle.

When mounting the speaker, it is extremely important to make sure that the mount is secure and will not cause any potential issues. It is highly recommended to periodically check that the mount is secured.

Installation and Wiring

LED External LEDs to SEB Pulse Lighting Control Outputs

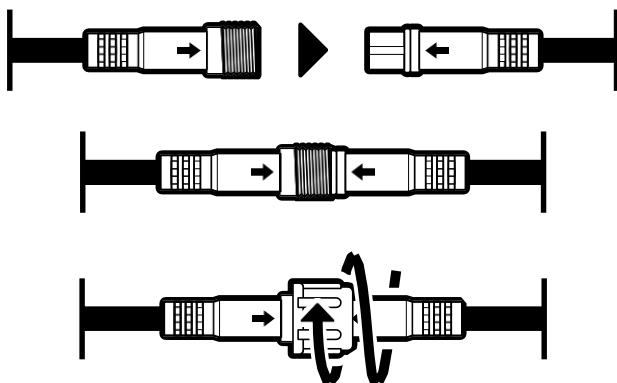


If you purchase an LEDCast-enabled LED product and want to connect it to the SEB Pulse, use the included Deutsch LED Cable to make the connection. The Cable has a Deutsch female connector on one end, and two 3-pin, round, female connectors on the other end.

1. Remove the rubber cap on the speaker's Deutsch Connector Jack.

IMPORTANT: Please keep it stored safely for later use. When you remove the Deutsch Cable from your SEB Pulse, you **MUST** use the included rubber cap to cover the Deutsch Jack. Failing to do this may result in potential water or moisture penetration into the jack connector pins, cause damage to the speaker, and **VOID THE PRODUCT WARRANTY.**

2. Plug in the Deutsch LED Cable into the Jack.



3. Connect the 3-pin female connector on the Deutsch LED Cable to the 3-pin male connector on an LEDCast-enabled product. Align the arrow on both connectors, push in and screw the nut cap on the female connector.

Aux-In Audio Connection

1. Gently pull out the rubber cap from the Aux-In Jack.
2. Plug in a 3.5mm audio cable (not included) into the audio output on the an audio source, e.g. vehicle Head Unit.
3. Plug in the other end of the 3.5mm audio cable into the SEB Pulse soundbar's Aux-In Jack.

Aux-Out Audio Connection

1. Gently pull out the rubber cover from the Aux-Out Jack.
2. Plug in a 3.5mm audio cable (not included) into the audio input on the external audio device.
3. Plug in the other end of the 3.5mm audio cable into the SEB Pulse soundbar's Aux-Out Jack.

Connecting and Playing Bluetooth Audio

1. Press the Power Button briefly to turn the speaker on.
2. Short-press the Audio Source Button to cycle through the Audio Source Modes until you hear, “Speaker Mode,” announced.
3. On your phone’s Bluetooth settings, select ‘SoundEx-Pulse-B’ to pair. If you don’t see the speaker name, turn your phone’s Bluetooth off and back on again to refresh the list, or short-press the Bluetooth Button on the speaker to enable Bluetooth Pairing again.
4. Wait for a few seconds. Once the pairing and connection are complete, the speaker will announce, “Your phone is connected,” and the Bluetooth LED Status Indicator will light up solid Blue.
5. Once connected, select and play your desired audio. You can now use the Play / Pause Button, Volume Control Button, or Track Button to control your audio.

Dual Simultaneous Connections and Switching Media Player Between Two Phones

Your SEB Pulse is capable of maintaining simultaneous connections with two smartphones, which allows you and your family or friends to share music on the soundbar by switching the music playback between your phone and your family member or friend’s phone. Follow the steps outlined below to switch back and forth between two phones.

1. Connect your phone to the SEB Pulse.
2. Short-press the Bluetooth Button on the SEB Pulse it will disconnect your phone and enable Bluetooth pairing. Connect another phone to the SEB Pulse.
3. Short-press the Power Button on the SEB Pulse. The speaker will turn off. Then short-press the button again to turn the speaker on.
4. Your SEB Pulse will automatically reconnect to both phones.

5. Play a selected music track on your phone. Your SEB Pulse will play your music.
6. On the other phone, select a music track to play. Your SEB Pulse will play the music from the other phone. The media player on your phone will pause or stop.
7. If you want to switch back to your phone, press the Play button on your phone's media player, your SEB Pulse will play the music on your phone. The media player on the other phone will pause or stop.

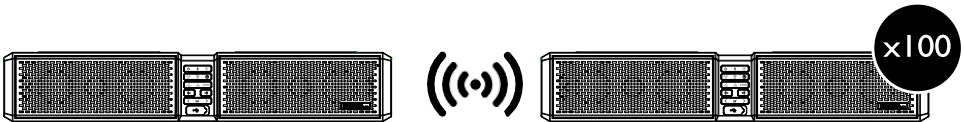
Listening to FM Radio

Recommendation: Turn the LED Party Lights off when searching for a radio station. LED lights can create interference with some FM radio frequencies.

Station Tuning

- Short-press the Audio Source Button to cycle through to FM Mode, the speaker will announce, "FM Mode."
- Short-press < or > to tune in a radio station.
- **Press and hold** < or > to seek a strong station.
- Short-press the ((► or ◀)) Button to adjust the volume.

EcoCast – Stream Music Between Multiple Speakers



The SEB Pulse has EcoCast built-in, which allows the soundbar to broadcast (transmit) or receive wireless audio streams to or from other EcoCast-enabled products.

Audio Functions

EcoCast Streaming: Two Modes

Use the Audio Source Button to set the speaker into EcoCast Transmitting Mode or EcoCast Receiving Mode:

1. **EcoCast Transmitting Mode:** When set in this Mode, the EcoCast Transmitting speaker broadcasts audio to multiple wireless connected EcoCast-enabled speakers.

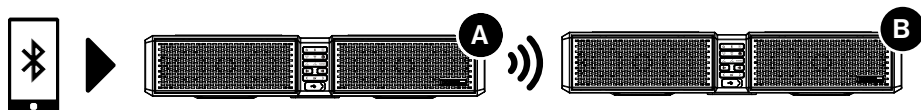
The Transmitting speaker's audio streaming can be the music played from your phone (via Bluetooth), FM Radio, or Aux-In Audio.

2. **EcoCast Receiving Mode:** When set in this Mode, the soundbar will receive audio from an EcoCast Transmitting speaker, soundbar, or radio.

Notes:

- When set to Speaker Mode, the Amplified Speaker turns the EcoCast capability off.
- When you have two or more soundbars or other ECOXGEAR or SoundExtreme speakers bearing the EcoCast symbol, you can build a broadcast system by initiating EcoCast Transmitting Mode in one soundbar and broadcasting your music to one or more EcoCast-enabled speakers in EcoCast Receiving Mode.

EcoCast: First Two Speakers

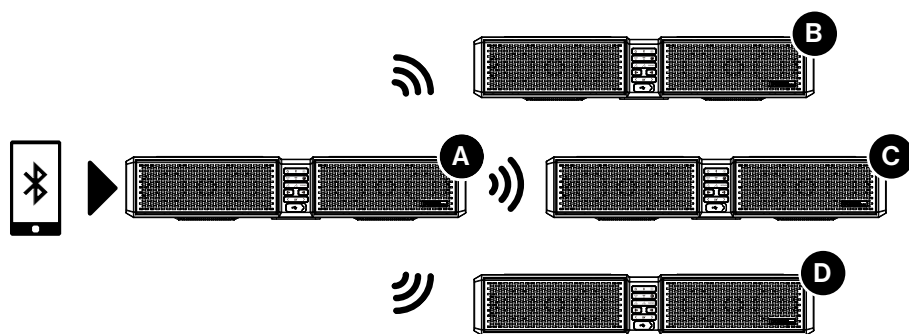


Follow the steps below to pair two SEB Pulse speakers:

1. Follow the Connecting and Playing Bluetooth Audio instructions to connect one soundbar (**Speaker A**) to your Bluetooth device. After your device is connected to **Speaker A**, you can play your desired audio.

2. Press the Audio Source Button to put **Speaker A** into EcoCast Transmitting Mode. The EcoCast LED Status Indicator will flash Red, and the speaker will announce, “EcoCast transmitting.”
3. Turn on the other soundbar (**Speaker B**) and press the Audio Source Button to cycle through to and initiate EcoCast Receiving Mode. The EcoCast LED Status Indicator will flash Green, and the speaker will announce, “EcoCast receiving.”
4. Once the connection between the soundbars is successful, **Speaker B** will announce, “Connection successful,” and start playing audio.

EcoCast: Additional Receiving Speakers



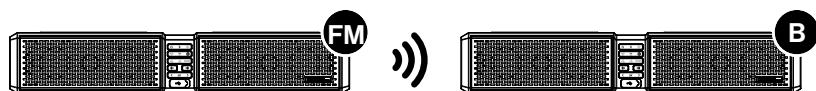
1. Turn on the additional EcoCast-enabled speakers (**Speaker C** and **Speaker D**) and press the Audio Source Button to cycle through to and initiate EcoCast Receiving Mode. The EcoCast LED Status Indicator will flash Green, and the speaker will announce, “EcoCast receiving.”
2. On **Speaker A** (the speaker with the EcoCast LED Status Indicator shining solid Red), short press the EcoCast button, the EcoCast Status Indicator will flash Red.
3. Once the connection between the speakers is successful, **Speaker C** (and **Speaker D**) will announce, “Connection successful,” and start playing audio.

Audio Functions

Notes:

- If all the speakers are turned off, then turned on, the speaker(s) in EcoCast Receiving Mode (**Speakers B, C, and D**) will automatically re-connect to the speaker in EcoCast Transmitting Mode (**Speaker A**). If they do not automatically re-connected, please follow the above steps to reconnect.
- The EcoCast functionality has a maximum range of 30 feet between speakers.

EcoCast: Streaming Your FM Radio Station or Aux-In Audio to Multiple Speakers

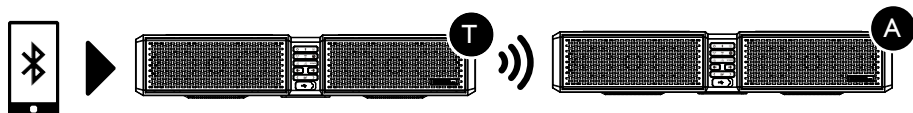


The SEB Pulse soundbar (Speaker FM) also has the capability to stream FM radio stations or Aux-In Audio to other EcoCast-enabled speakers in Receiving Mode. Note that when the Audio Source Mode is switched to FM radio or Aux In mode, EcoCast Transmitting is disabled. You can enable or disable EcoCast Transmitting by pressing the speaker V- button and EcoCast Button on the Control Panel at the same time. When it is enabled, the speaker will announce, “EcoCast enabled.” When it is disabled, the speaker will announce, “EcoCast disabled.”

When EcoCast is enabled, follow the steps below to transmit Aux-In Audio or FM radio streaming to other EcoCast-enabled speakers.

1. Turn on another EcoCast-enabled speaker (Speaker B), press the Audio Source Button to cycle through to EcoCast Receiving Mode. The EcoCast Status Indicator will flash Green, and Speaker B will announce, “EcoCast receiving.”
2. On Speaker FM, short-press the EcoCast Button. The EcoCast Status Indicator will flash Red.
3. Once the connection between the speakers is successful, Speaker B will announce “Connection Successful” and start playing audio.

Play Audio Streams From Another EcoCast-Enabled Speaker



If there is an EcoCast-enabled speaker in EcoCast Transmitting Mode nearby, you can set your SEB Pulse soundbar (**Speaker A**) to EcoCast Receiving Mode and play audio streams from the EcoCast Transmitting speaker (**Speaker T**):

1. Turn on **Speaker A**, press the Audio Source Button to cycle through to EcoCast Receiving Mode. The EcoCast LED Status Indicator will flash Green, and the speaker will announce, “EcoCast receiving.”
2. **On Speaker T**, press the EcoCast button, the LED Status Indicator will flash Red.
Note: If **Speaker T** is not a SEB Pulse soundbar, it may require a different button operation to enter EcoCast Transmitting (Pairing Ready) Mode. Please refer to **Speaker T's** User Guide.
3. Once the connection between the speakers is successful, **Speaker A** will announce, “Connection successful,” and start playing audio.

Note: A speaker in EcoCast Receiving Mode will play at the same volume level (Volume Sync) as received in the audio streams from the EcoCast Transmitting speaker. You can press **+** or **-** on the EcoCast Receiving speaker to adjust the volume for the EcoCast Receiving speaker only. However, as soon as the EcoCast Transmitting speaker has a playback change (e.g., track change or a volume change), the EcoCast Receiving speaker will once again Volume Sync with the Transmitting speaker.

LED Lighting Zones, Modes, and Scenes

In addition to the buttons on its Control Panel, the SEB Pulse soundbar can also be controlled by the included SoundExtreme Universal Remote Control and the SoundExtreme Smartphone App. Below are some terms and definitions to help you better understand the Remote Control and the SoundExtreme App.

Zone

A Zone corresponds to all the LED lights that are connected directly to one physical connection on an LED Lighting Controller output, either integrated in the SEB Pulse or in an ExtremeController (sold separately). When you change a Zone status (on / off, Mode, etc.), the LEDs connected to that Zone will change accordingly. You can control one Zone or multiple Zones at a time.

The integrated LED Lighting Controller on the SEB Pulse soundbar supports 4 Zones:

Zone 1 – The RGB LED Party Lights behind the speakers on the front and bottom of the soundbar.

Zone 2 – The LED Light Bar on the back of the soundbar.

Zone 3 and Zone 4 – Each Zone supports externally connected LEDCast-enabled products.

Mode

There are 3 LED Mode categories, totaling in 44 Modes supported by the RF Remote. The SoundExtreme app can support many more Color Modes.

1. Color Mode: Each Color Mode lights up the LEDs in a solid color. There are 8 Color Buttons on the Remote Control: Red, Green, Blue, White, Orange, Yellow, Cyan, and Purple. You can create a custom color by utilizing the SoundExtreme Smartphone App.

2. **Party Mode:** There are 20 preset Party Modes accessible via the Remote Control and SoundExtreme Smartphone App. The app allows you to customize each of the 20 Party Modes, allowing for nearly unlimited color, cascading, and LED chasing options.
3. **Music Mode:** There are 16 Music Modes accessible via the Remote Control and SoundExtreme Smartphone App.

Scene

A Scene is programmed via the SoundExtreme Smartphone App. You can customize each Zone into a Scene (a preset). Setting the Scenes on the app allows a 1-button press to bring up your desired custom settings for all of the LED products connected to the LED Lighting Controller.

The SEB Pulse soundbar has 5 Scene settings. They are user customizable and programmable. The default Scene settings are:

- Scene 1: Patriot I (Red, White, and Blue)
- Scene 2: Flowing colors
- Scene 3: Zoom
- Scene 4: Fading colors
- Scene 5: Christmas (Red, Green, and White)

Control Panel: Lighting Control Buttons

There are 5 buttons on the SEB Pulse Control Panel that are used to operate the LED Party Lights in the 4 Zones and the Utility Light on the back of the soundbar. Refer to the following table for an overview of the Lighting Control Buttons functionality.

Lighting Control Concepts

BUTTON	ACTION	FUNCTION
  	Short-Press	· To cycle through the 44 LED Modes in each Zone. · If off, to turn on each Zone.
	Press and Hold (for 3 seconds)	When on, to turn the corresponding Zone off.
	Short-Press	If Party Lights are on, to cycle through the 44 LED Modes in Zone 2. If off, to turn on Zone 2. If Utility Light is on, to cycle through the 3 Brightness Levels.
	Press and Hold (for 3 seconds)	When Zone 2 (Light Bar Party Lights) is on, to turn Zone 2 off.
SCENES	Short-Press	To cycle through the 5 defined Scenes for all Zones.
	Press and Hold (for 3 seconds)	To turn on / off the rear-facing Utility Light.

NOTES

- There are 44 distinct LED Modes: 8 Color Modes, 20 Party Modes, and 16 Music Modes. You can also use the SoundExtreme Smartphone App to find a specific LED Mode.
- When turned on, each Zone will enter the last LED status it was in before powering off.
- Once a 44-Mode cycle is completed, the next short-press will turn the lights off. Turning lights back on will restart the cycle.

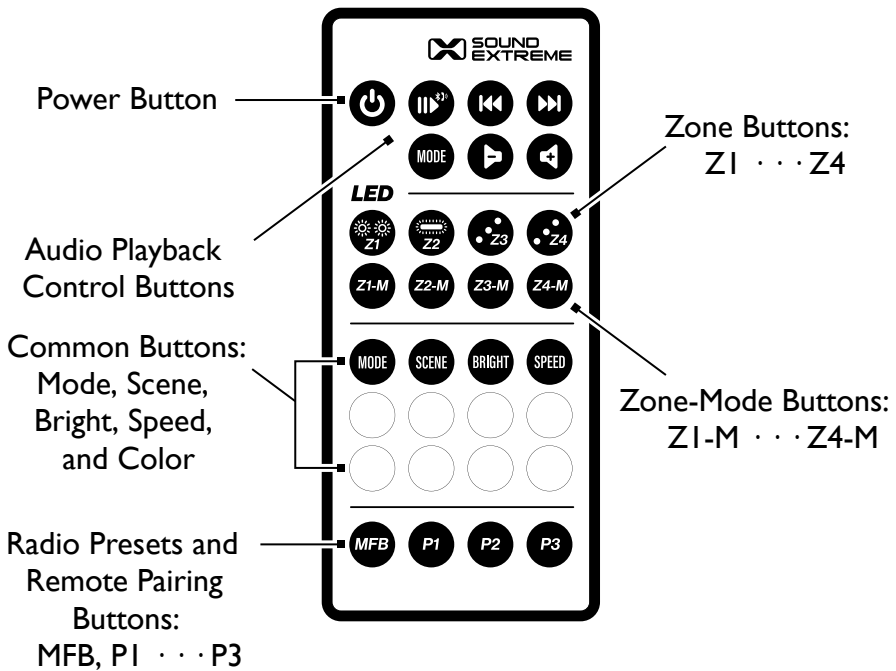
- There are 44 distinct LED Modes: 8 Color Modes, 20 Party Modes, and 16 Music Modes. You can also use the SoundExtreme Smartphone App to find a specific LED Mode.
- When turned on, Zone 2 will enter the last LED status it was in before powering off.
- Once a 44-Mode cycle is completed, the next short-press will turn the lights off. Turning lights back on will restart the cycle.
- When the Utility Light is on, each short-press will cycle through 3 Brightness Levels: high, mid, and low.

- The Party Lights in all 4 Zones will light up as defined by Scene 1. Each following short-press will cycle through the next 4 Scenes.
- If the Party Lights in Zone 2 are on, turning on the Utility Light will automatically turn the Party Lights in Zone 2 off.

Light Bar: Utility Light and Zone 2 RGB LED Party Lights

The Utility Light (White) and the Zone 2 Party Lights are co-located on the same Light Bar on the back of the SEB Pulse soundbar. To avoid the lighting interferences between the Utility Light and Party Lights, the button functions are designed to prevent the Utility Light and Party Lights from being turned on at the same time.

- Short-press the Zone 2 Button to turn the Party Lights on.
 - If the Party Lights in Zone 2 are on, turning on the Utility Light will automatically turn the Party Lights in Zone 2 off.
- **Press and hold** the Scenes Button to turn the Utility Light on /off.
 - When the Utility Light is on, the SEB Pulse will NOT allow the Zone 2 Party Lights to turn on. You **MUST** turn the Utility Light off before you turn the Zone 2 Party Lights on.
 - When the utility light is on, you can short-press the Z2 Button to change the Brightness Level: high, mid, low.



The SEB Pulse soundbar comes with a SoundExtreme Universal Remote Control.

Basic Functions

1. Power, MODE, and all the Audio Playback Control Buttons on the Remote Control have the same functions as their corresponding buttons on the Control Panel.

Note: There are two MODE Buttons on the Remote Control. The MODE Button at the top is for Audio Source Mode. The MODE Button in the middle is for LED Party Light Mode.

2. LED Lighting Control Buttons: There are 20 buttons on the RF Remote Control that are used to operate the LED Party Lights in the 4 Zones and the Utility Light on the back of the soundbar. The Zone Buttons (Z1...Z4) and Zone-Mode Buttons (Z1-M... Z4-M) affect individual Zones. The Common Buttons (LED Mode,

RF Remote Control

Scene, Bright, Speed, and 8 Color Buttons) affect all 4 Zones at once.

3. MFB, P1, P2, and P3 Buttons:

When the soundbar is in FM mode, P1, P2, and P3 Buttons serve as 3 Preset Buttons:

- i. **Press and hold** a Preset Button for 2 seconds to save the current station to the corresponding Preset.
- ii. Short-press a Preset Button to tune to the saved station corresponding to that Preset Button.

In combination with the MFB Button, the P1, P2 or P3 Buttons will let you to pair one Remote Control with up to 3 speakers / soundbars or to select an individual product to control.

Remote Control Pairing and Speaker Selection

The SoundExtreme Universal Remote Control can pair with and save up to 3 soundbars in its memory as P1, P2, and P3 speakers. The included Remote Control comes paired with the SEB Pulse soundbar as the P1 speaker. You can use it out-of-the-box to control the speaker after it is powered on.

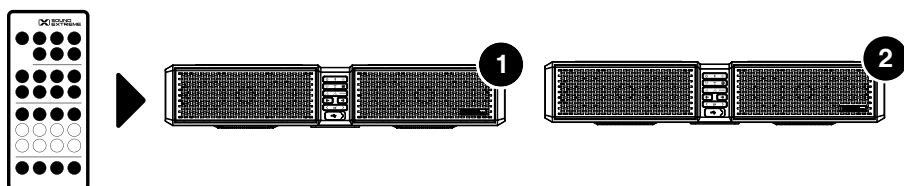
If the speaker does not react when you press a button on the Remote Control, check if the battery isolator (clear plastic strip) on the Remote battery compartment is removed (pulled out) completely. Then, follow the steps below.

Remote Control Pairing

1. When the soundbar is on, **press and hold** the and Buttons on the speaker at the same time for 3 seconds. The soundbar's LED Party Lights will flash Green, indicating the speaker is ready to pair with a remote.
2. **Press and hold** the MFB Button for 3 seconds, then press P1 (P2, or P3) to save the pairing soundbar as the P1

(P2, or P3) speaker. Once paired, the soundbar's LED Party Lights will rapidly flash Green 3 times.

Select a Soundbar to Control



Assuming your Remote Control has paired with **Soundbar 1** and **2** as P1 and P2 soundbars, **Soundbar 1** is currently controlled by the Remote Control. If you want to use the Remote Control to control **Soundbar 2**, follow the steps below.

1. **Press and hold** the MFB Button for 3 seconds, **Soundbar 1's** Party Lights will flash Blue, indicating your remote is in the process of speaker selection.
2. While **Soundbar 1** is flashing Blue, press P2. The Party Lights on **Soundbar 2** will flash Blue 3 times and produce a prompt double-beep tone, indicating **Soundbar 2** is selected.
3. Press a button on the Remote Control. **Soundbar 2** will produce the corresponding action, while **Soundbar 1** will have no response.

Soundbar Party Lights and Utility Light Control

When the SEB Pulse soundbar is on, you can use the Remote Control to change the Party Lights and Utility Light.

Zone 1 to Zone 4: Party Lights – Lighting Mode Control

1. **Press and hold** the Power Button to turn on / off all the Party Lights.
2. Press the Z1, Z2, Z3, or Z4 Button. The Party Lights will briefly light up Green in ascending order and then shine solid Orange or a random color pattern.

RF Remote Control

3. Now you can change the LED Lighting Mode by short-pressing one of the Zone-Mode Buttons (Z1-M, Z2-M, Z3-M, or Z4-M) to cycle through the three LED Mode categories for only the corresponding Zone.

Note: There are 44 distinct LED Modes. Instead of using a Zone-Mode Button to cycle through to a desired LED Mode, you can also use the SoundExtreme Smartphone App to find a specific LED Mode.

Common Buttons: Modifying All 4 Zones

You can change the LED Lighting Mode in all 4 Zones with one of the following button presses:

- Short-press the LED Mode Button. Each short-press will cycle through all 44 LED Modes.
- Short-press the Scene Button to cycle through the 5 Scenes.
- Short-press the Bright Button to cycle through 5 levels of brightness.
- Short-press the Speed Button to cycle through 5 levels of speed. The lighting patterns, as defined by the selected LED Lighting Mode, will progress more quickly with each short-press.
- Short-press one of the 8 Color Buttons to light the LEDs in the corresponding color

Refer to the **Remote Functions Overview** chart for more details.

Utility Light Control

The Utility Light can be controlled by the Scene Button and the Z2-M Button.

1. **Press and hold** the Scene Button to turn on the Utility Light.
2. When the Utility Light is on, short-press the Z2-M Button to cycle through 3 Brightness Levels: High, Mid, and Low

3. **Press and hold** the Scene Button to turn off the Utility Light.

Advanced Functions

Cycle to Previous Mode

As previously indicated, you can cycle through the 44 distinct LED Modes in all 4 Zones or in individual Zones. You can also cycle back to the previous LED Mode:

- To cycle back to the previous LED Mode for ALL 4 Zones, double-click the LED Mode Button.
- To cycle back to the previous LED Mode in a single Zone, double-click one of the Zone-Mode Buttons (Z1-M, Z2-M, Z3-M, or Z4-M).

Common Buttons: Modifying a Single Zone

As previously indicated, a short-press of any of the Common Buttons or will change the LED lighting effect in all 4 Zones. You can also change the LED lighting effect in only 1 Zone at a time:

1. To activate the Zone you want to change, **press and hold** the Zone Button. For example, **press and hold** the Z1 Button for 3 seconds. The LEDs in Zone 1 will flash Green twice, indicating that Zone 1 is selected.
2. You can now **press and hold** any of the 8 Color Buttons, the Bright Button, or the Speed Button for 2 seconds (instead of a short-press) to modify the LEDs in the selected Zone.
3. To change another Zone, e.g. Zone 3, **press and hold** the Z3 Button. The LEDs on Zone 3 will flash Green twice, indicating that Zone 3 is selected. Follow step 2 to modify the LEDs in Zone 3.

Note: Any time you short-press a Common Button on the Remote, it will change the LEDs in all 4 Zones.

Remote Functions Overview

BUTTON	ACTION	FUNCTION
	Press and Hold (for 3 seconds)	Turn on / off the LEDs in all Zones.
	Short-Press	Turn on / put the soundbar into Standby Mode.
	Short-Press	To play / pause audio.
	Short-Press	· In Bluetooth Mode: To skip to the previous or the next track. · In FM Mode: To tune in a station.
	Press and Hold (for 3 seconds)	In FM Mode: To seek a strong station.
	Short-Press	To Change Audio Source Modes.
	Press and Hold (for 3 seconds)	To enable EcoCast pairing.
	Short-Press	To increase or decrease the speaker's volume.
	Press and Hold Both (for 3 seconds)	To adjust the volume continually.

NOTES

- When turned on, each of the LEDs will light up Green in ascending order. When turned off, the LEDs light up Red in descending order.
- When in Standby Mode, the speaker consumes minimal power.
- There are 5 Audio Source Modes— Bluetooth, EcoCast Transmitting, EcoCast Receiving, FM, and Aux-In.
- The speakers will emit a tone to indicate when maximum or minimum volume setting is reached.

Remote Functions Overview

BUTTON	ACTION	FUNCTION
 	Short-Press	To turn on / off each Zone.
 	Press and Hold (for 3 seconds)	To select a single Zone.
   	Short-Press	· To cycle through the three LED Mode categories for the selected Zone. · Z2-M Only: If Utility Light is on, to cycle through the 3 Brightness Levels (high, mid, low).
	Double-Click	To cycle back to the previous LED Mode for the selected Zone.
	Short-Press	To cycle through the three LED Mode categories for all Zones.
	Double-Click	To cycle back to the previous LED Mode for all Zones.
	Short-Press	To cycle through the 5 defined Scenes for all Zones.
	Press and Hold (for 3 seconds)	To Turn on / off the rear-facing Utility Light.

NOTES

- When turned on, LEDs in Zone 1 will light up Green in ascending order. When turned off, the LEDs light up Red in descending order.
- The LEDs in the selected Zone will rapidly flash Green twice. You can now Press and Hold one of the Common Buttons to change the Brightness, Speed, or Color for the selected Zone.
- There are 44 distinct LED Modes: 8 Color Modes, 20 Party Modes, and 16 Music Modes. You can also use the SoundExtreme Smartphone App to find a specific LED Mode.
- There are 44 distinct LED Modes: 8 Color Modes, 20 Party Modes, and 16 Music Modes. You can also use the SoundExtreme Smartphone App to find a specific LED Mode.
- If the Party Lights in Zone 2 are on, turning on the Utility Light will automatically turn the Party Lights in Zone 2 off.

Remote Functions Overview

BUTTON	ACTION	FUNCTION
	Short-Press	To cycle through 5 levels of Brightness / Speed for all Zones.
	Press and Hold (for 2 seconds)	To cycle through 5 levels of Brightness / Speed for the selected Zone.
	Short-Press	To select the corresponding Color for all Zones.
	Press and Hold (for 2 seconds)	To select the corresponding Color for the selected Zone.
	Press and Hold (for 3 seconds)	To select a speaker to control.
	Press and Hold (for 2 seconds)	When in FM Mode: To save the current station to the P1 Button.
	Short-Press	When in FM Mode: To tune to the station saved to the P1 Button
	Press and Hold (for 2 seconds)	When in FM Mode: To save the current station to the P2 Button.
	Short-Press	When in FM Mode: To tune to the station saved to the P2 Button
	Press and Hold (for 2 seconds)	When in FM Mode: To save the current station to the P3 Button.
	Short-Press	When in FM Mode: To tune to the station saved to the P3 Button

NOTES

- You must first Press and Hold the corresponding Zone Button to select a Zone before using this feature.

- There are 8 Color Buttons on the Remote Control: Red, Green, Blue, White, Orange, Yellow, Cyan, and Purple. You can also use the SoundExtreme Smartphone App create a custom color.

- You must first Press and Hold the corresponding Zone Button to select a Zone before using this feature.

- Refer to Remote Control Pairing and Speaker Selection for more details.

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- Refer to Remote Control Pairing and Speaker Selection for more details.

SoundExtreme App

The SEB Pulse comes with a free download SoundExtreme Smartphone App. The App will help you to set up your SEB Pulse's LED lighting control and audio functions.

Download and Install

Bluetooth Low Energy: The SoundExtreme Smartphone App relies on a BLE (Bluetooth Low Energy) connection between your phone and the SEB Pulse. Make sure you turn on Bluetooth on your smartphone

For iPhones, download the app from the following URL:

<https://apps.apple.com/us/app/soundextreme/id1670708941>

For Android phones, download the app from the following URL:

<https://play.google.com/store/apps/details?id=com.cchip.ecoxgear>

Alternatively, use the following QR Codes to download the SoundExtreme Smartphone App.



iOS



Android

App Overview

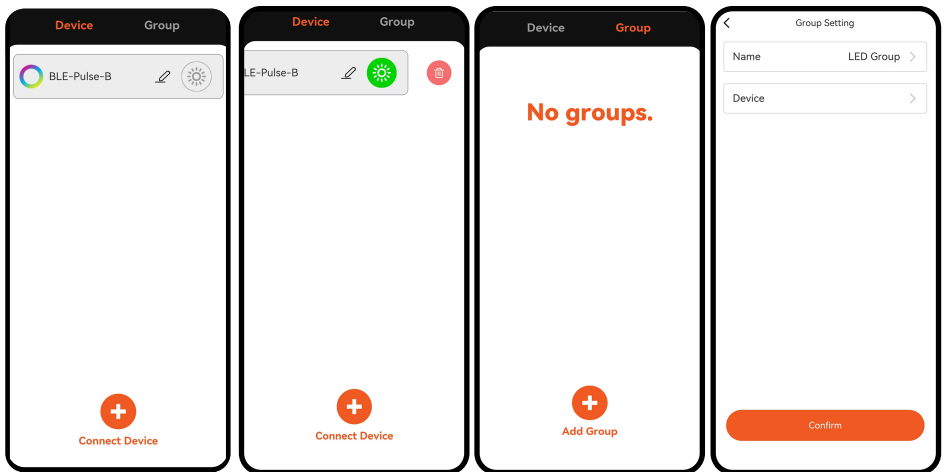
The SoundExtreme App has two major features for user to set up speaker's LED lighting control and configure speaker audio functions.

The App is password protected so others cannot gain access and control your SEB Pulse. The default password is 0000.

The App home screen is for managing devices and grouping multiple devices for LED lighting control.

Manage Device

On the Device screen, you can swipe a paired/connected device to the left and delete it, or click the + icon to go to the device scan and connection screen, select your device, connect to it.

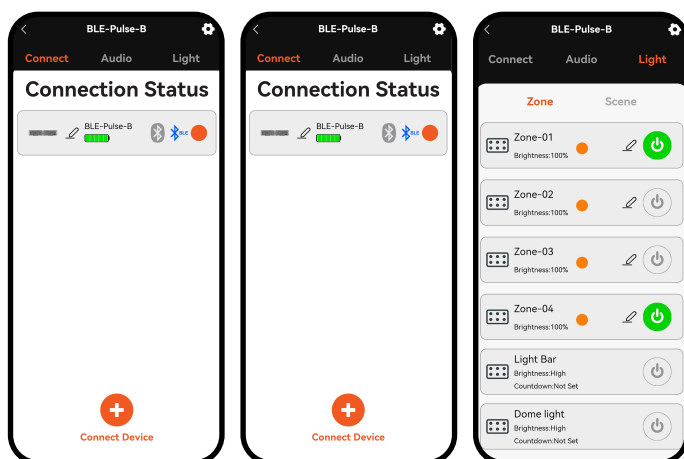


Set Up a Group for LED Lighting Control

On the Group screen, you can create and set up a group of devices (multiple speakers, or other ECOXGEAR or SoundExtreme products with LEDCast built-in). This will allow all the LED lights connected to different devices to be controlled by the SoundExtreme Smartphone App at the same time.

App Audio Configurations and LED Lighting Control Functions

Once you select one connected device, it has 3 function screens for you to manage device connection, configure audio and set up LED lighting modes.



Connect Screen – Manage device connection

A click on the + icon, it will bring you to the device scan and connection screen. You can select your device and connect to it.

Audio Screen – Configure Speaker Audio Functions

The Audio Screen has features for users to configure the speaker Bluetooth functions, tune an FM radio station, set up Aux In signal input level and gain.

- Bluetooth – Select Bluetooth streaming mode - speaker mode, EcoCast Transmitting or EcoCast Receiving.
- FM– tune speaker's FM radio on the App! No need to touch the speaker buttons. You can also save your favorite to one of the 6 presets.
- Aux In – set up Aux In signal voltage level (high or low) and input gain. Enable or disable EcoCast for the Aux In audio.

Light Screen – Set Up LED Lighting Modes

- The LED Lighting Control Function Screen has features for users to select LED brightness, colors, patterns, and speed of the LED party mode, create custom patterns and advanced features.
- Name Your Zones: You can change and customize the name of your Zones, such as: Rear speakers, Soundbar, subwoofer, cabin lights, under glows, roof lights, whips etc.
- Set Up Modes: Use the app to set up the LED Mode for each of the Zones on your speaker. You can also change the Brightness and Speed.
- Create and save lighting Scenes: A Scene is a preprogrammed light show that you can save for later quick-access. You can program each of your device's and zone's LEDs to a specific color and action for quick access. Such as create Christmas, 4th of July, Halloween, nighttime, and party scenes for a 1 button access later. We have created 5 default Scenes that are fully customizable and programmable.